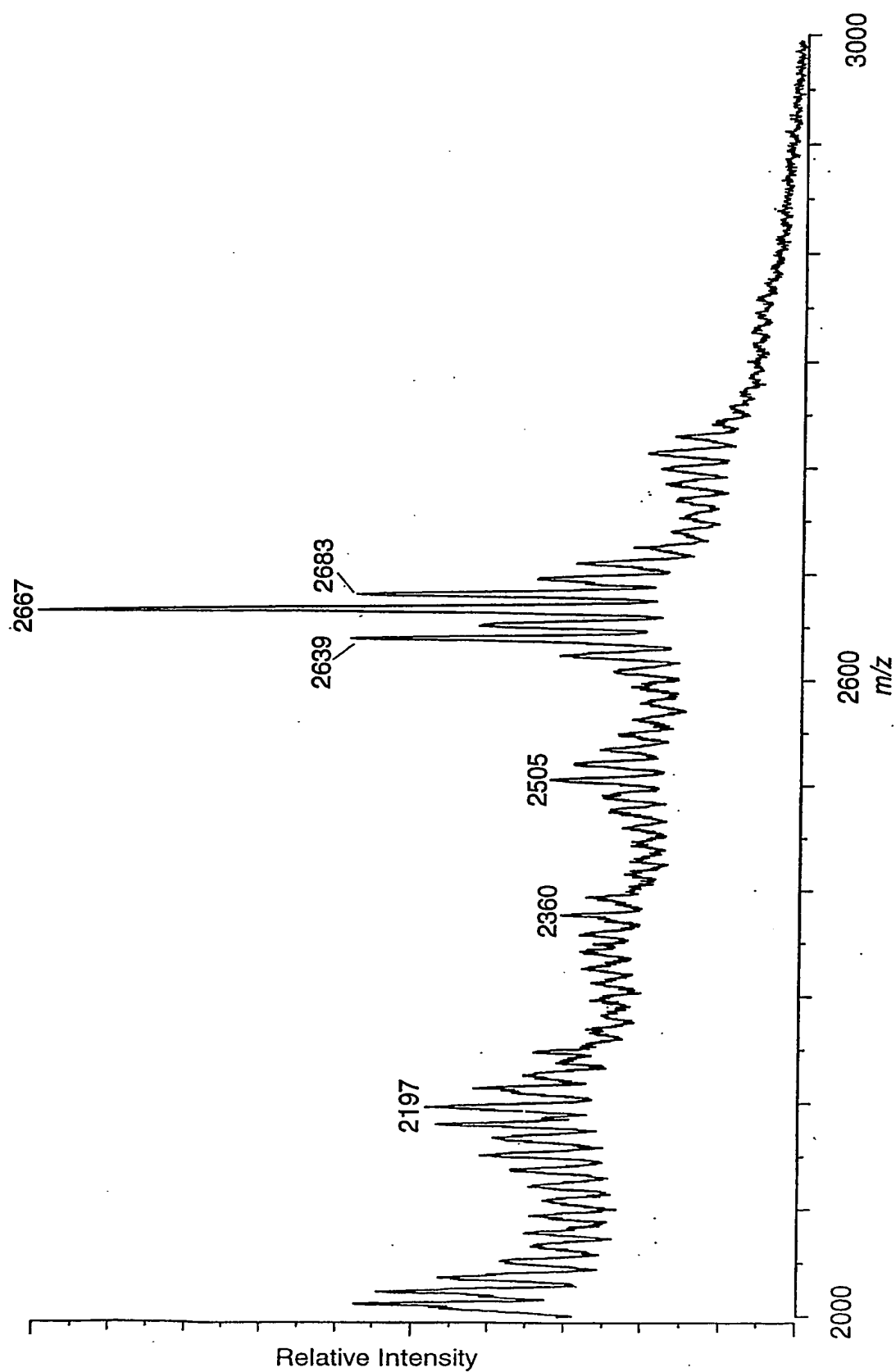
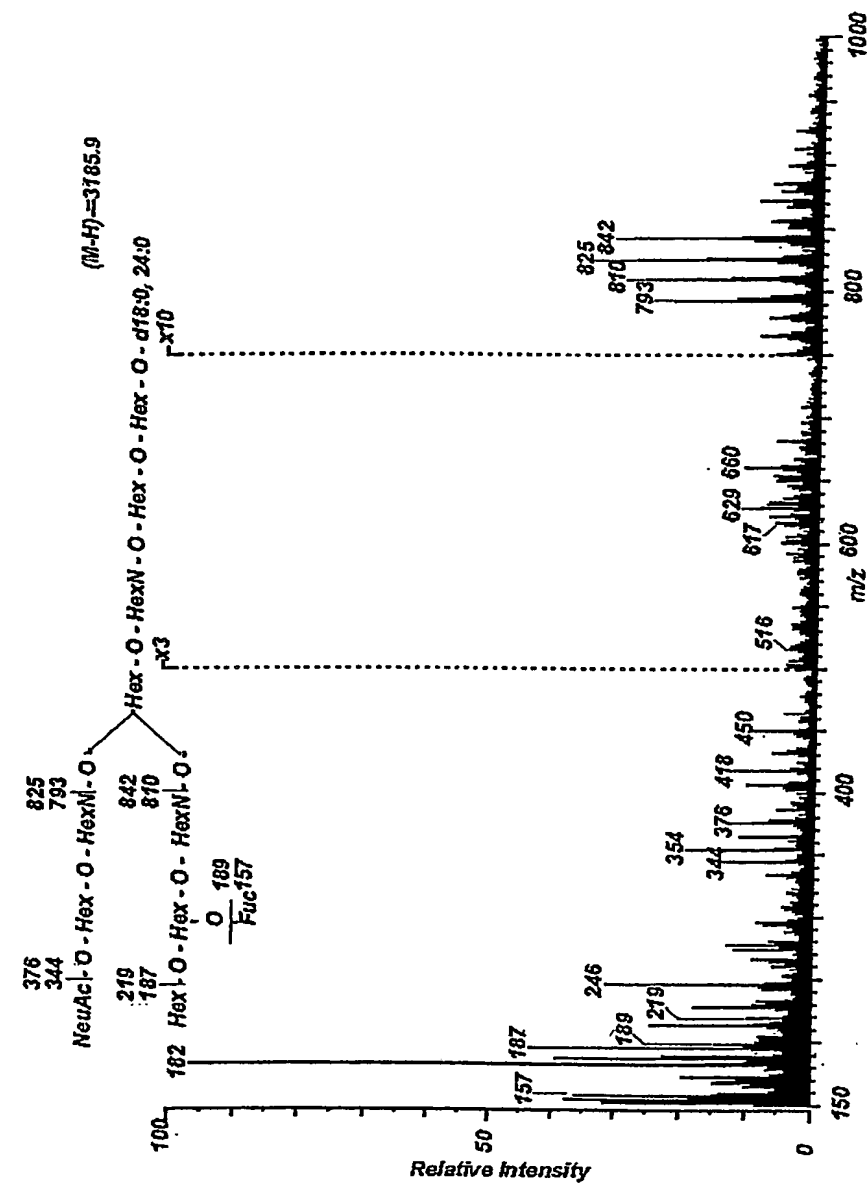


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Fig. 1B



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Mass spectrum showing relative intensity (%) versus m/z. The x-axis ranges from 0 to 2400 m/z. The y-axis ranges from 0 to 100% relative intensity. The base peak is at m/z 344 (B1β). Other significant peaks are labeled with their m/z values and corresponding fragment names: 157 (B1α'), 187 (B1α), 189 (B1α'), 219 (B1α), 375 (B1β), 622, 654, 793 (B3β), 810 (B3α), 825 (B3β), 842 (B3α), 1594 (MH2 2+), 2102 (B5), 2306 (B6).

Chemical structure overlay (top):

- NeuAc - O - Hex - O - HexN - O - Hex - O - Hex - O - Hex - Cer
- Fragment B3β is indicated at the HexN-O-Hex bond.
- Fragment B3α is indicated at the Hex-O-Hex bond.
- Fragment B1α is indicated at the Hex-O-Hex bond.
- Fragment B1β is indicated at the NeuAc-O-Hex bond.
- Fragment Y6α' is indicated at the Hex-O-Hex bond.
- Fragment Fuc B1α' is indicated at the Hex-O-Hex bond.

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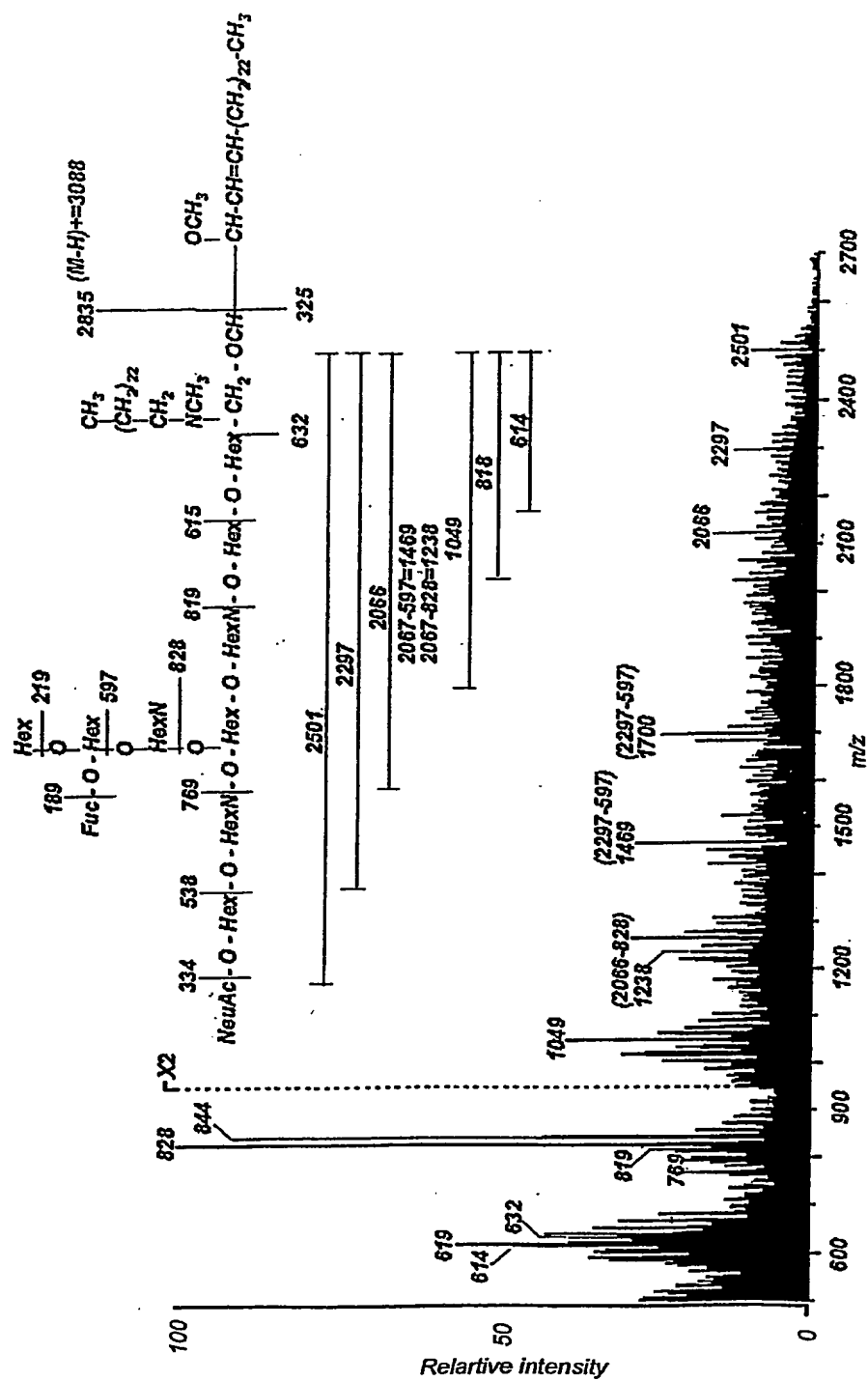
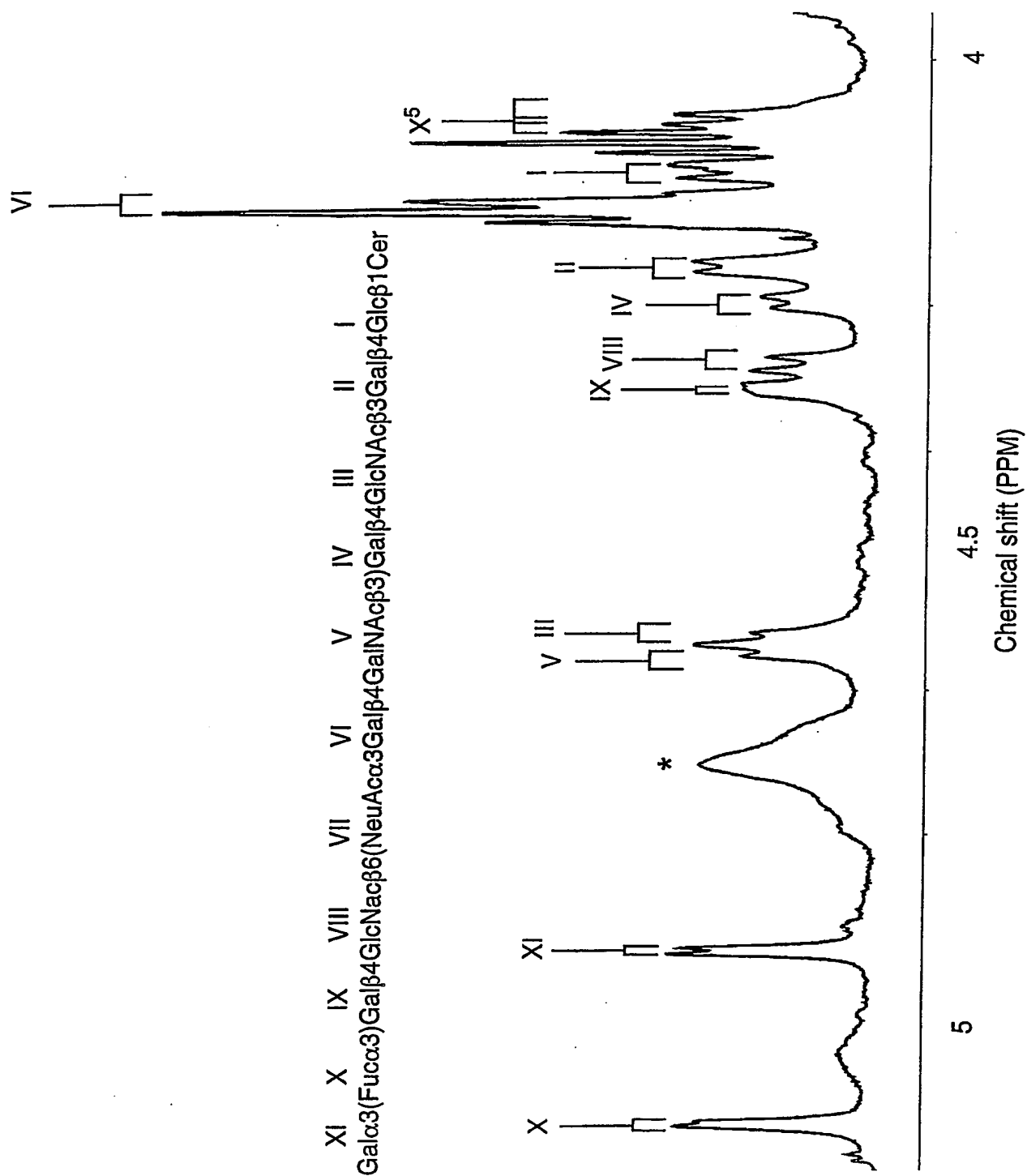
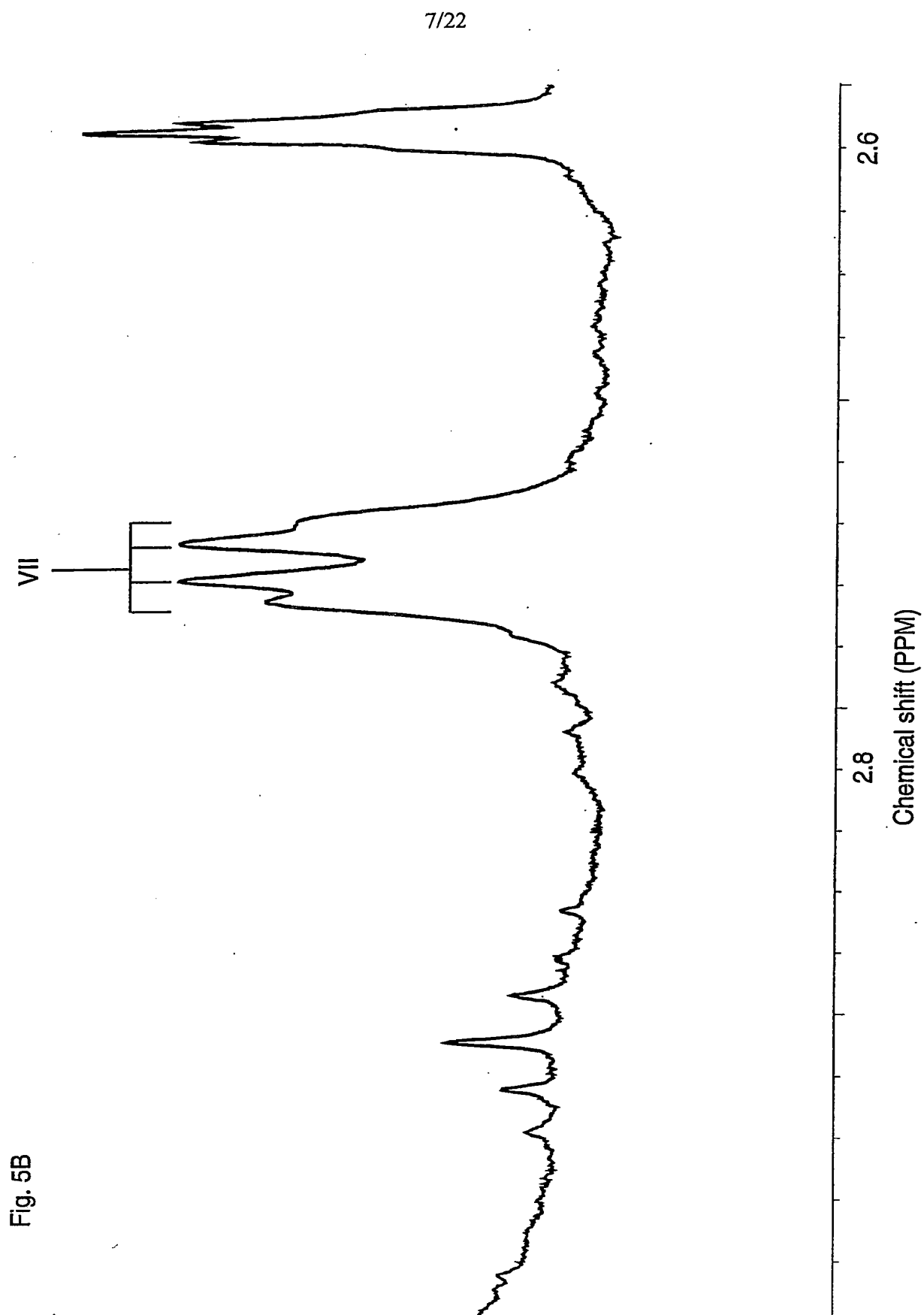


Fig. 4

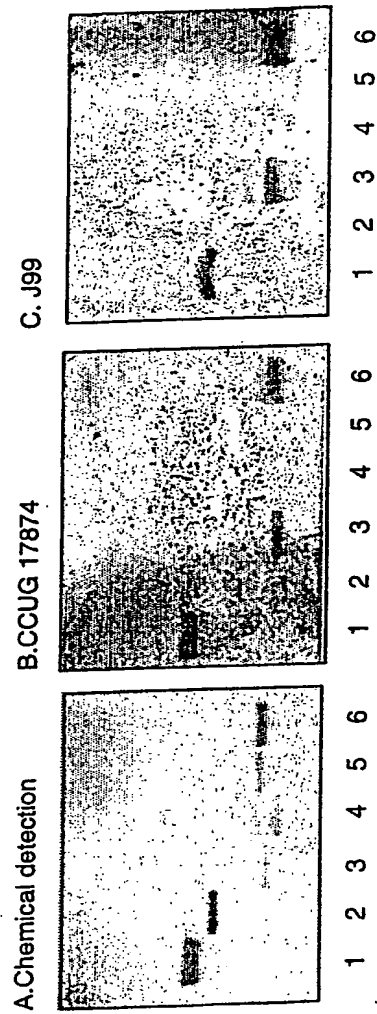
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Fig. 6A, 6B and 6C





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Fig. 7A, 7B and 7C

A. Chemical detection



B. CCUG 17874



C. J99



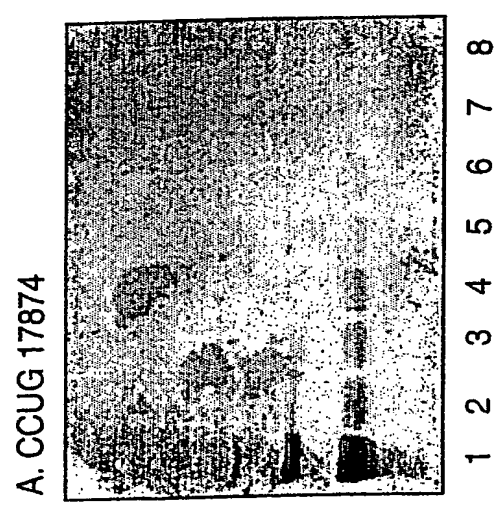
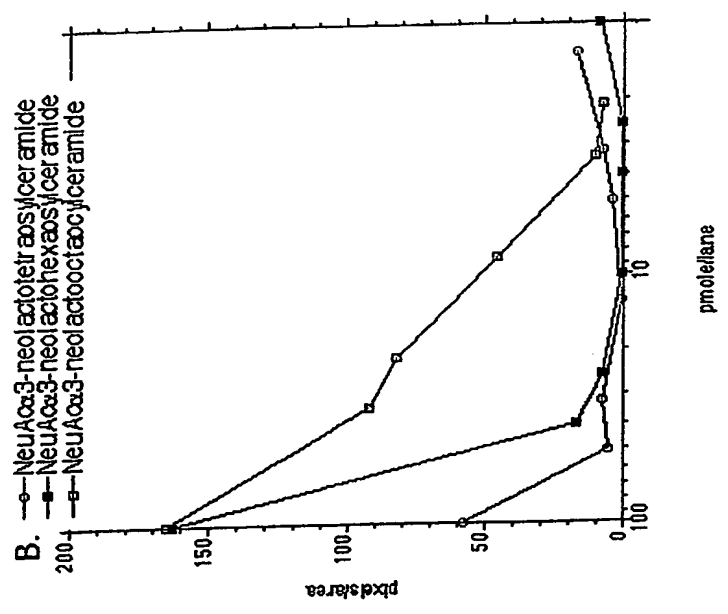
1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

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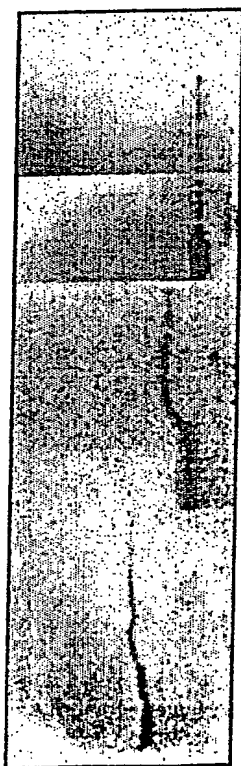
Fig. 8A and 8B



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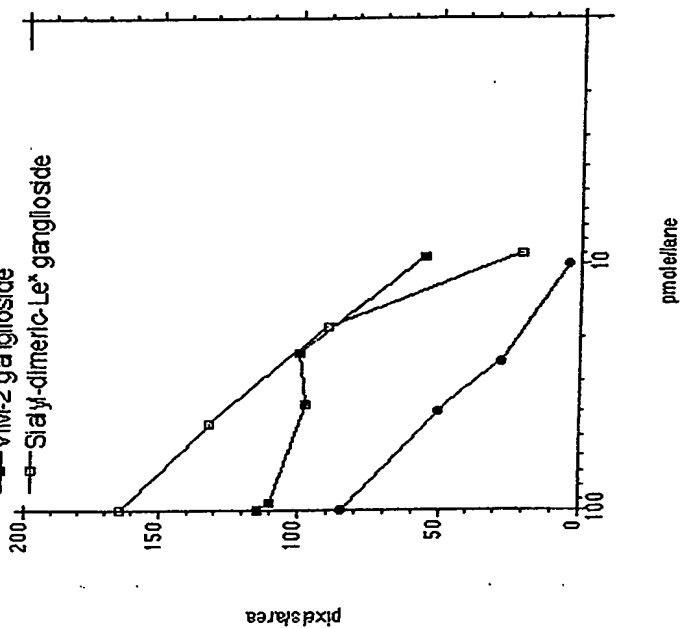
Fig. 9A and 9B

A. CCUG 17874



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

B.  
 —●— NeuAα3-neolactone xaosylceramide  
 —■— VIM-2 ganglioside  
 —□— Sialyl-dimeric-Le<sup>x</sup> ganglioside



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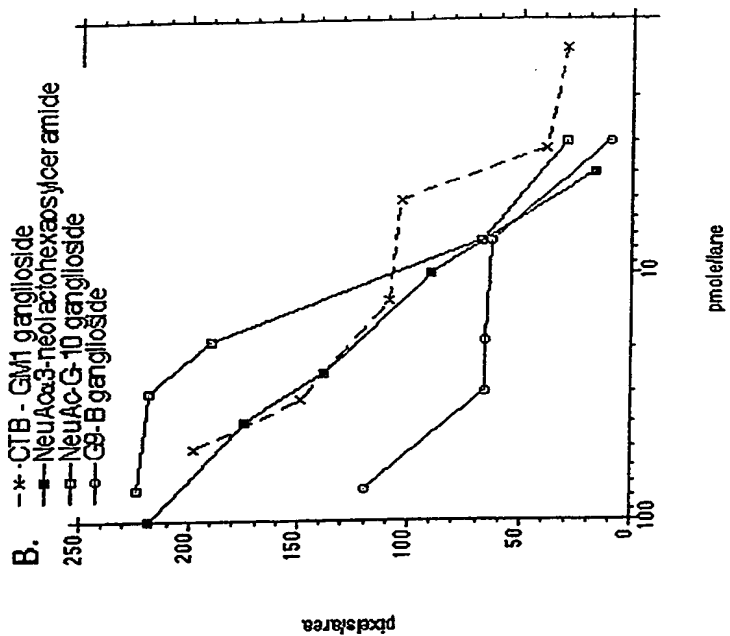
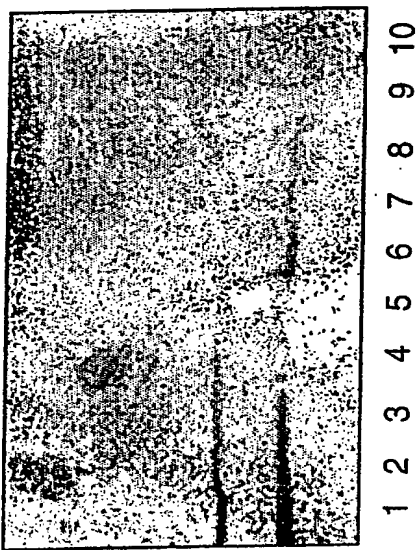


Fig. 10A and 10B

A. CCUG 17874



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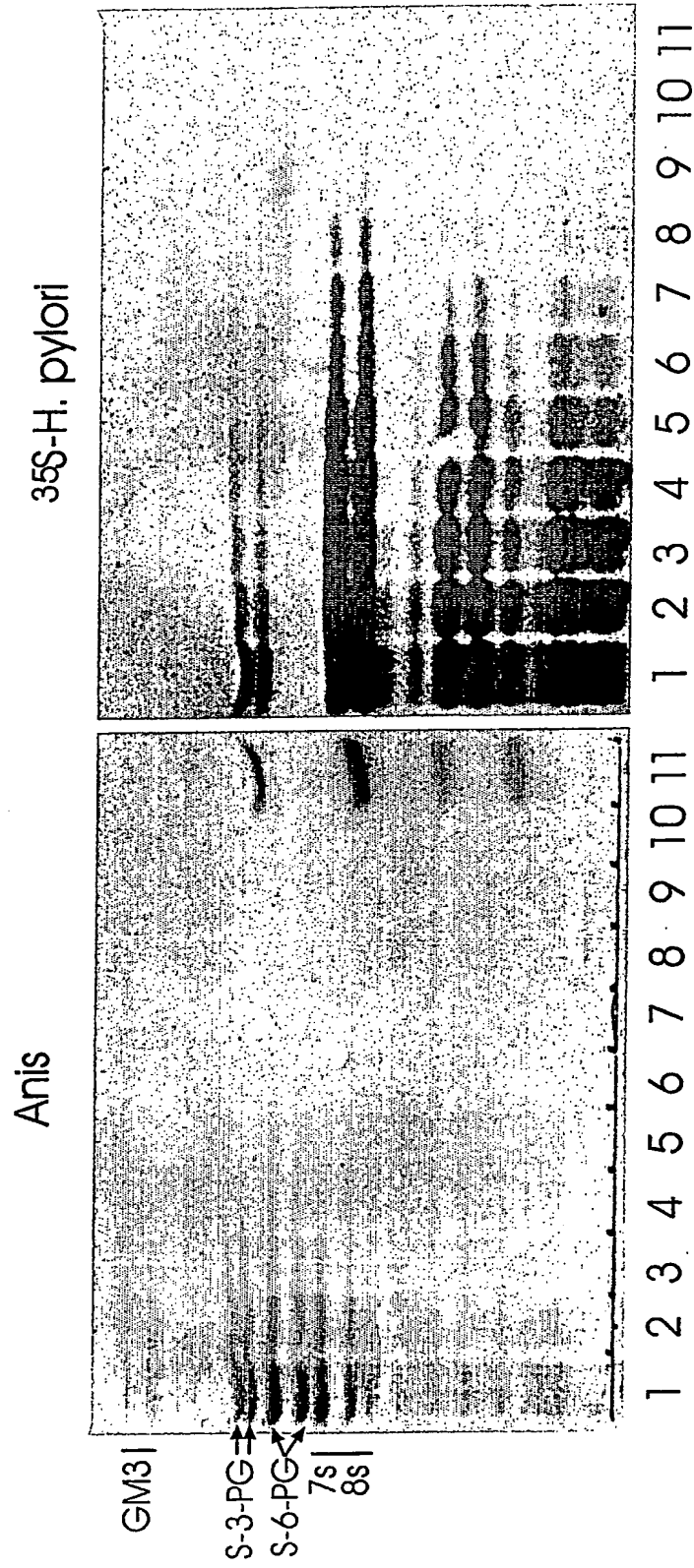


Fig. 11

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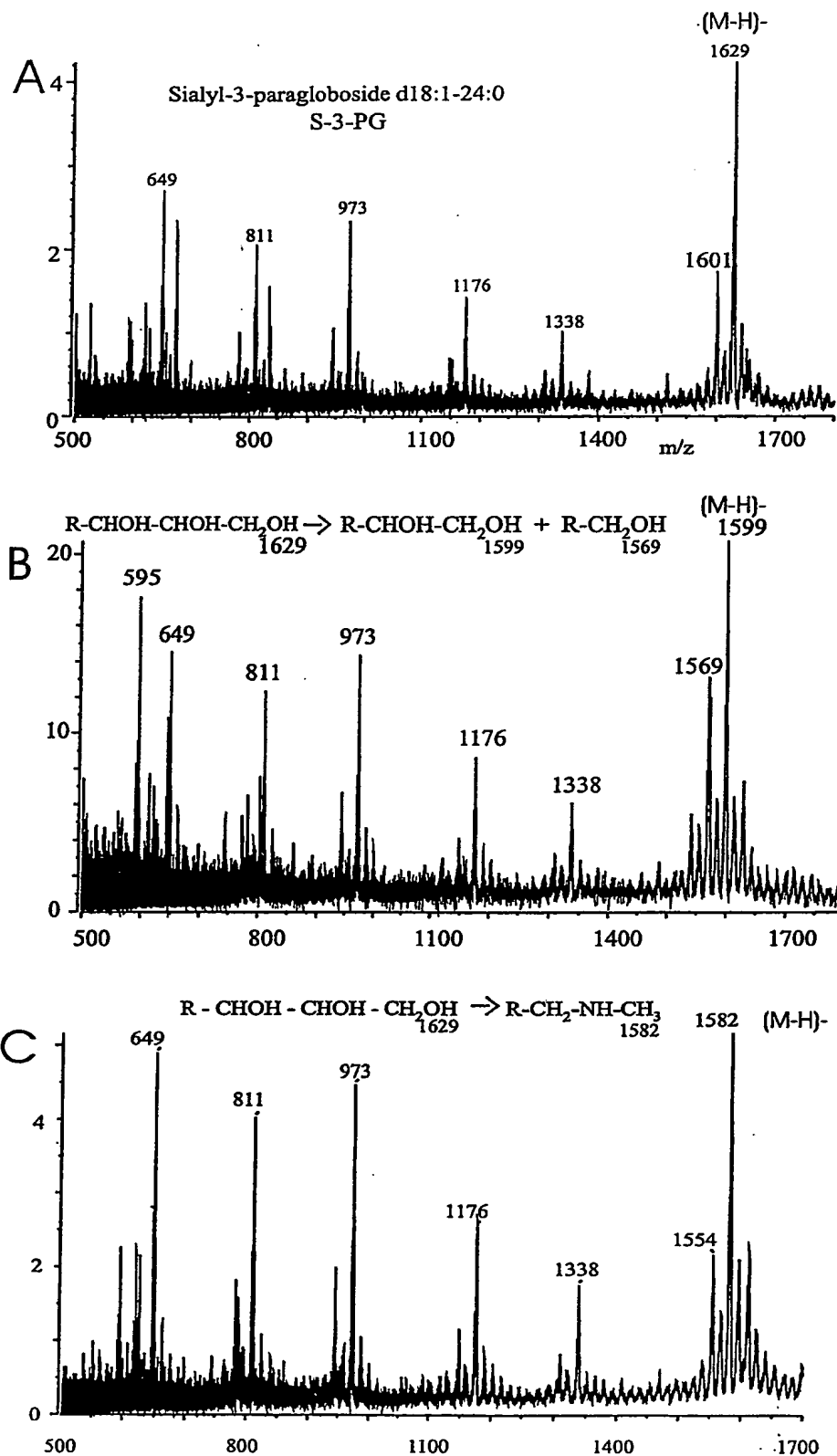


Fig. 12A, 12B and 12C

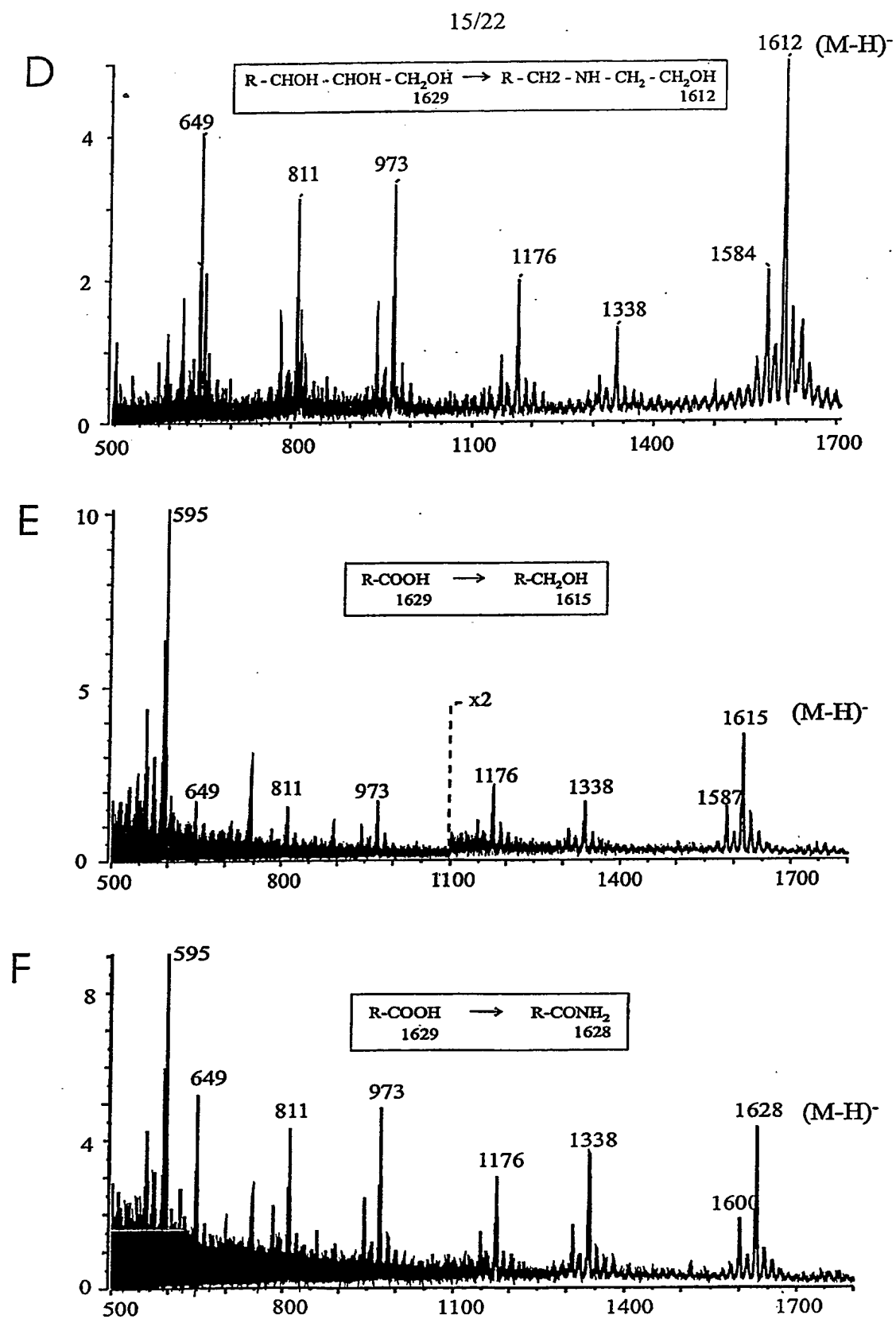


Fig. 12D, 12E and 12F

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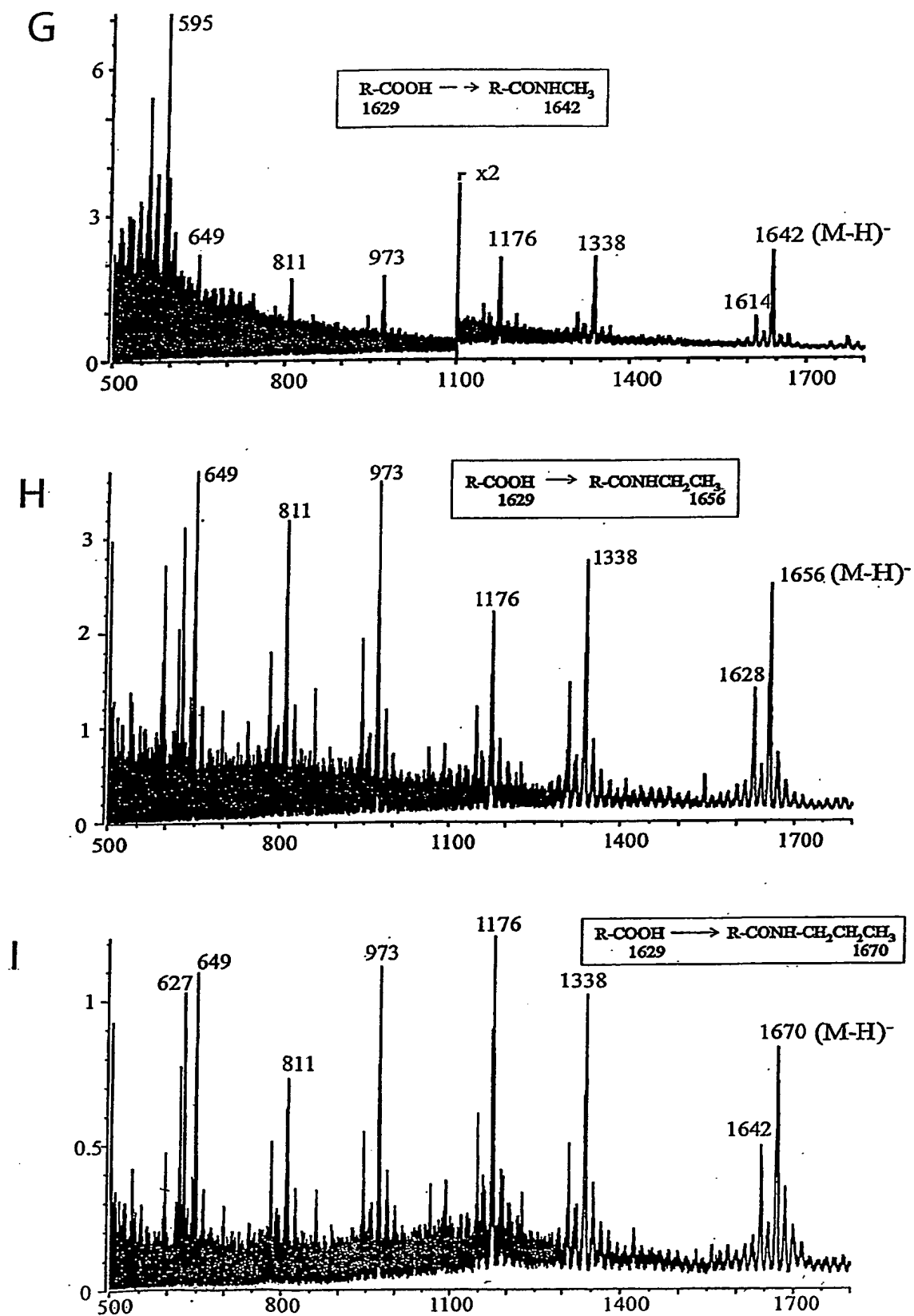


Fig. 12G, 12H and 12I



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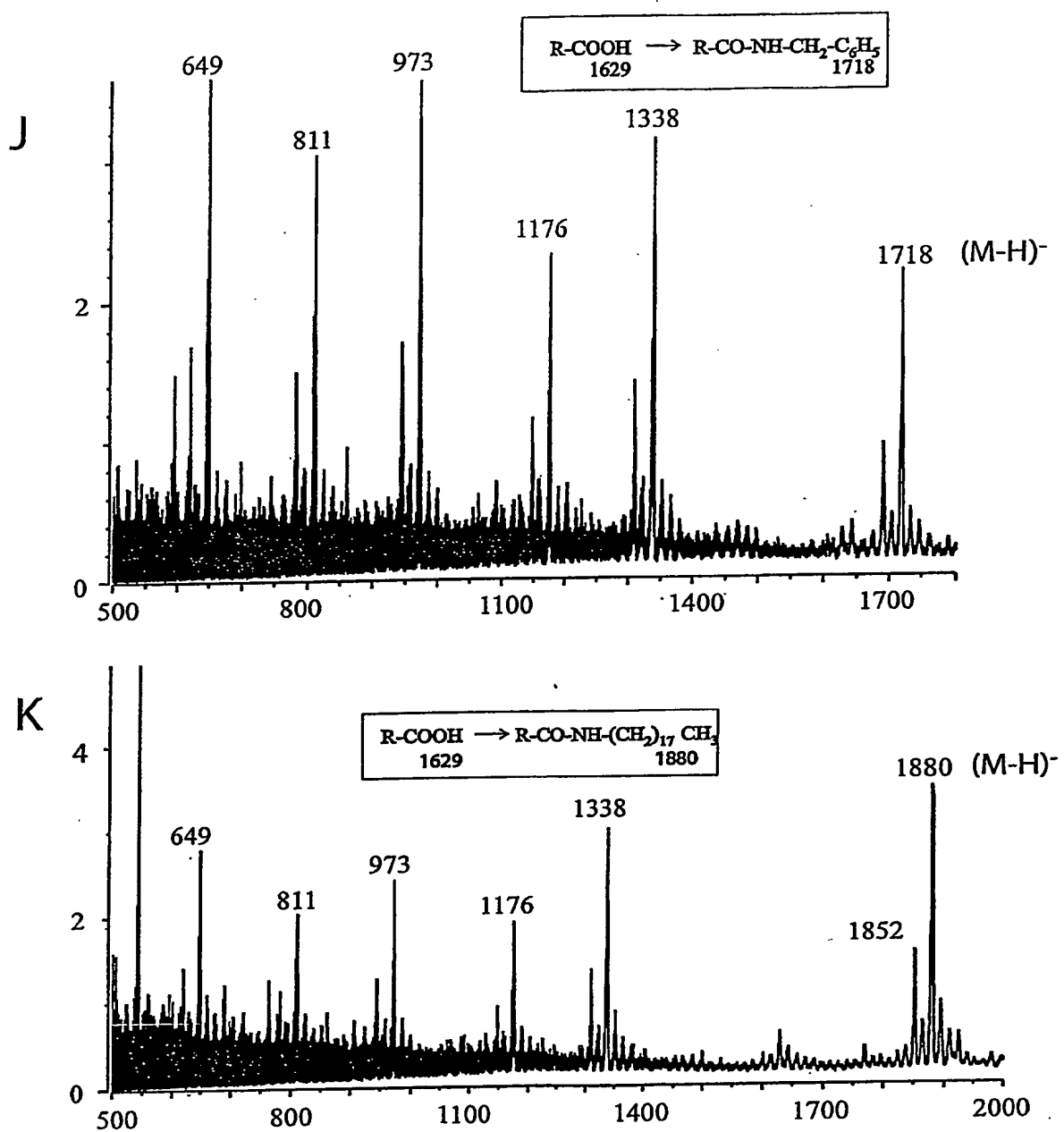


Fig. 12J and 12K

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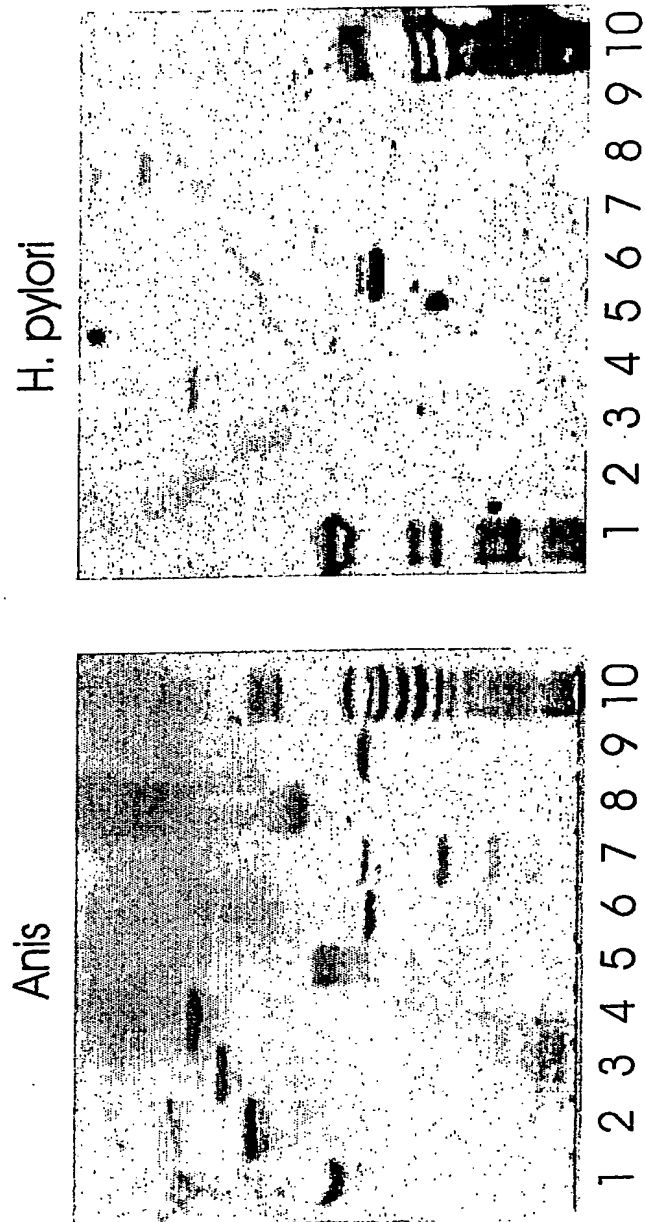


Fig. 13

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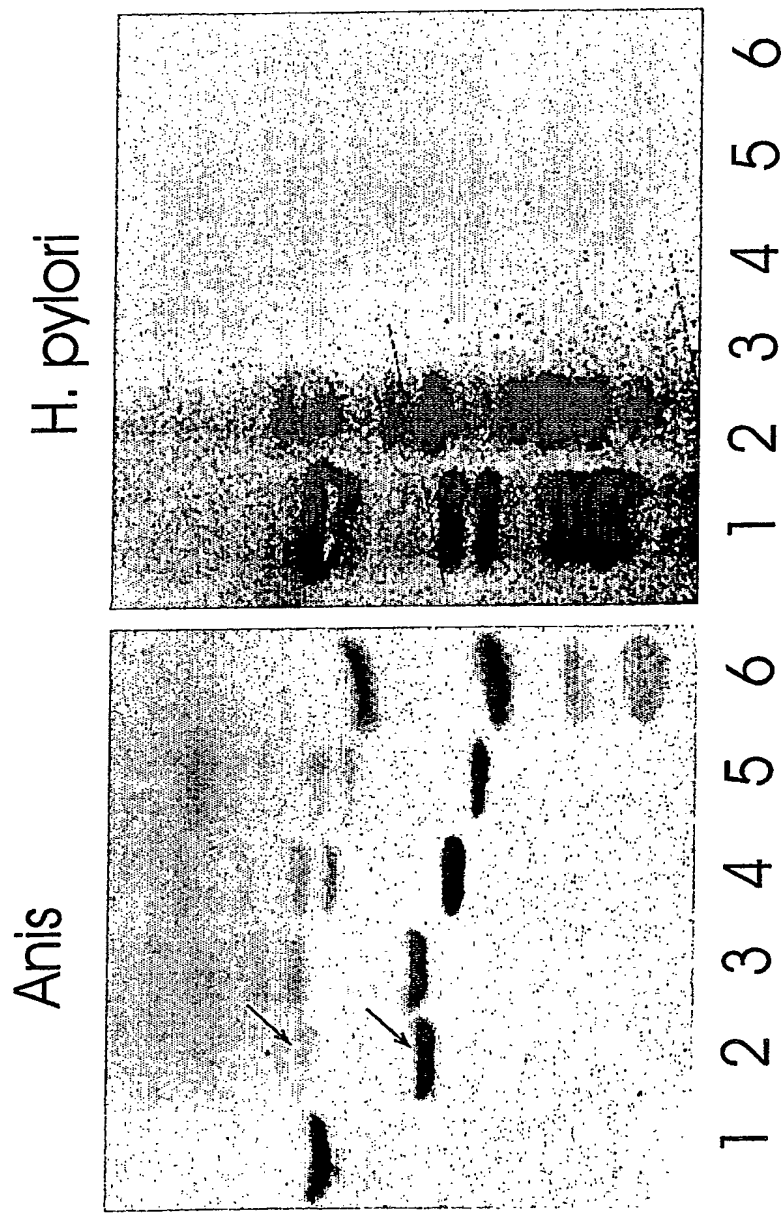


Fig. 14

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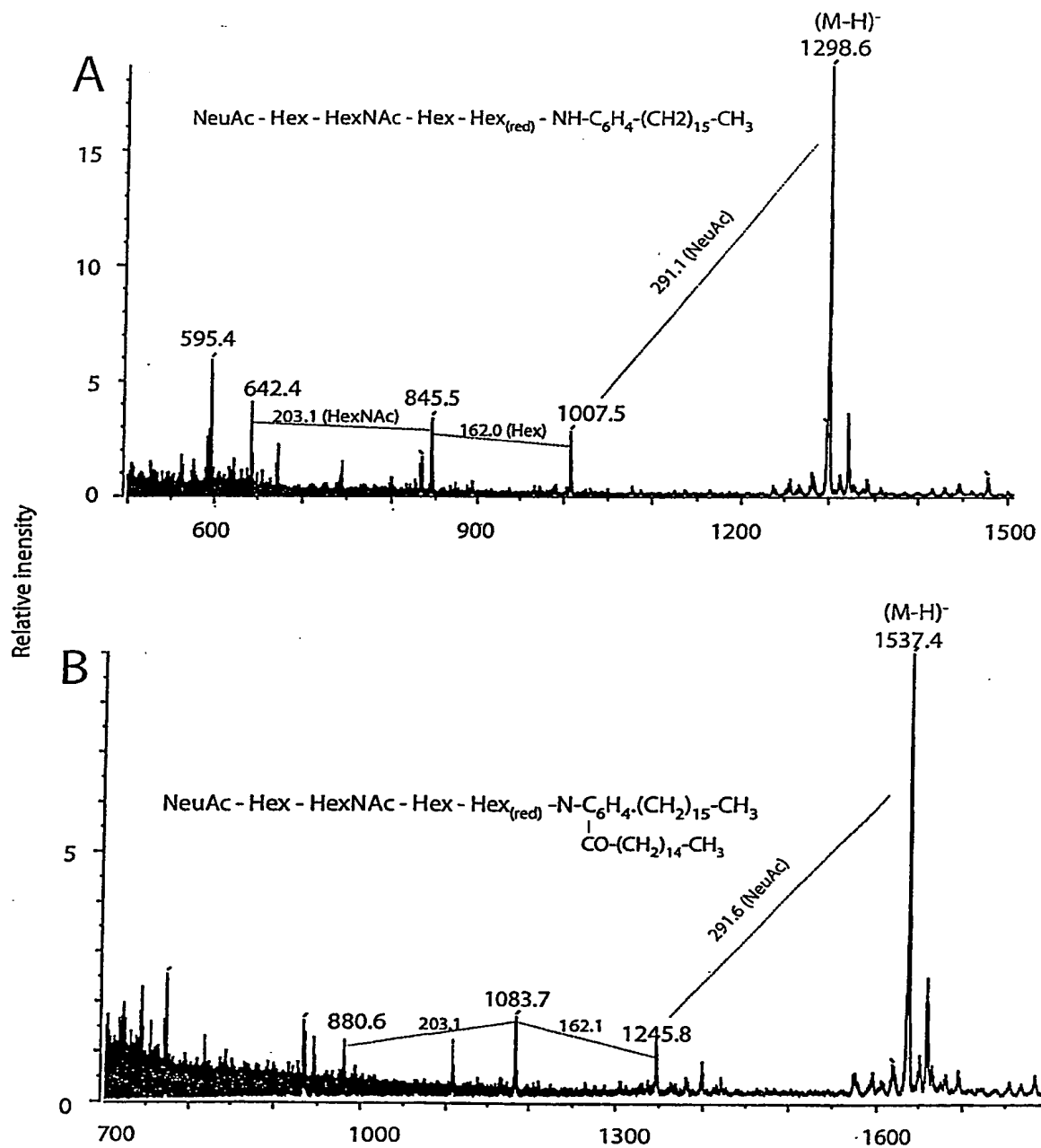


Fig. 15A and 15B

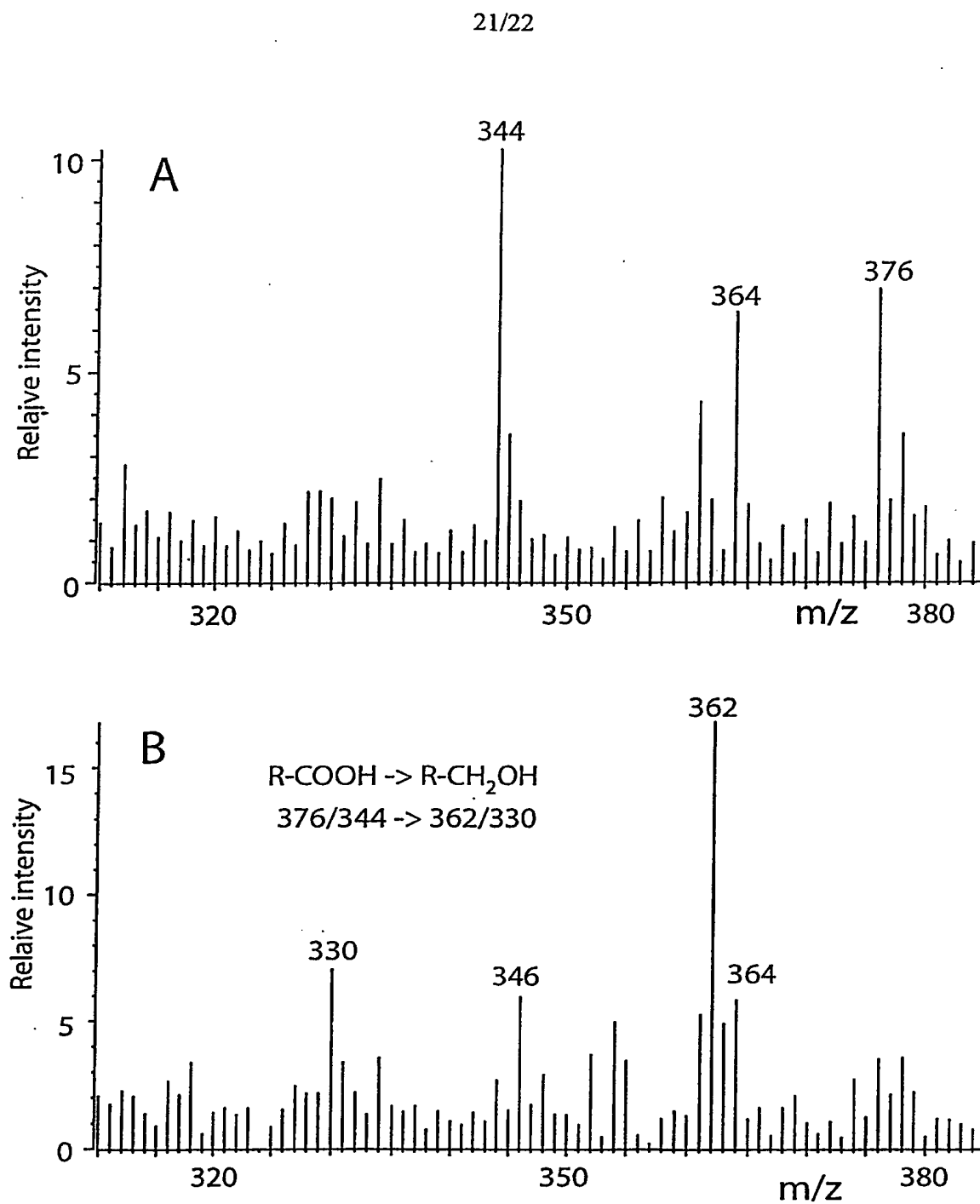


Fig. 16A and 16B

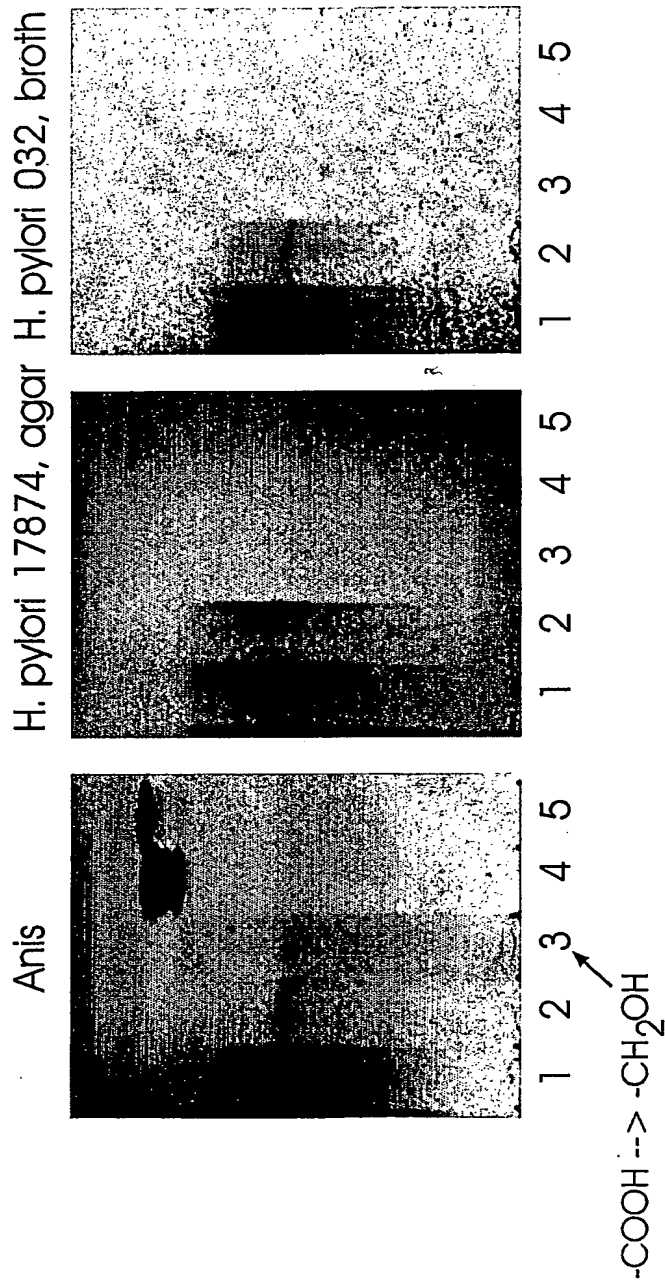


Fig. 17